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| Course: | SBI3U | | Unit: | Genetics | | Lesson: | Sex Linkage | |
| **STUDENT LEARNING GOALS**:  By the end of this lesson, students should understand the concept of sex linkage in genetics, how sex-linked genes differ from autosomal genes in their mode of inheritance, and students should be able to perform basic crosses involving this information. Students will also learn what a test-cross is. | | | | | **MATERIALS/APPENDICES**  Sex Linkage Powerpoint  Sex Linkage handout | | | |
| **MINISTRY EXPECTATIONS**:  D2.3 Use the Punnett Square method to solve basic genetics problems involving monhhybrid crosses, imcomplete dominance, codominance, dihybrid crosses and **sex-linked genes**.  D3.3 Explaim the concepts of genotype, phenotype, dominance, incomplete dominance, codominance, recessiveness, and **sex linkage** according to Mendelian laws of inheritance. | | | | | Agenda:  Quick Codominance Review  Sex Linkage  Work on Practice Problems. | | | |
| PRIOR KNOWLEDGE:  Students must be able to determine genotype from a written phenotype, and must be able to construct and interpret single and double gene Punnett squares. Knowledge of alleles written in superscript format is beneficial… | | | | |
|  | | T/L STRATEGIES | | | RATIONALE | | | ASSESSMENT |
| A MINDS ON  (5 min) | | 1. Ask the class if they know of any sex-linked disorders. 2. Ask re: are your grandparents bald? – mom’s dad vs dad’s dad etc. 3. Talk about Henry VIII and Anne Boleyn | | |  | | |  |
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| B ACTION | | 1) Sex Linkage Powerpoint | | |  | | |  |
|  | | 2) Seat Work – class should work on powerpoints | | |  | | |  |
| C CONSOLID-ATION &  CONNEC-TION | | 1)) Discusss next class - pedigrees    2) | | |  | | |  |
| NEXT STEPS | |  | | |  | | |  |
| Comments: | | | | | | | | |